



USGS @ BayDelta 2014 Conference Book

Download this conference book PDF:
bit.ly/usgsBayDelta2014



PRESENTATIONS

Presentation Title	First	Last	Email	Oral Session	Day	Time	Room
Invited Plenary Speaker: Deputy Secretary, U.S. Department of Interior	Michael	Connor	www.doi.gov	Plenary Session	TUE	9:10a	308-313
Cooperative Ecological Investigations in the San Francisco Estuary: Science for a Changing State	Anke	Mueller- Salger	amueller-solger@usgs.gov	Plenary Session	TUE	9:40a	308-313
How Can Climate Science Best Influence Public Policy In Era of Drought?	Sam	Luoma	snluoma@ucdavis.edu	SESSION: Can Climate Science Influence Public Policy in an Era of Drought?	TUE	1:35p	311-313
Reducing Hydrodynamic Complexity in Junctions and the Challenge of Producing Accurate Lagrangian Simulations	Jon	Bureau	jrbureau@usgs.gov	Connecting Models with Habitat	TUE	1:55p	314
Vertical Distributions of Phytoplankton in San Francisco Bay	Charles	Martin	camartin@usgs.gov	Food Webs I: Where the Plankton Are and More	TUE	2:35p	307
Biomass and Grazing Rates of Two Exotic Bivalves, Corbicula fluminea and Potamocorbula amurensis, Show Surprising Variability Over 20-30 Year Sampling Period: What Does it Mean for Future Food Webs?	Jan	Thompson	jthompso@usgs.gov	Food Webs II: Understanding Consumers	TUE	3:35p	307
A System of Autonomous Fixed Station Measurements Together with Synoptic Spatial Characterization Provide Insights into Dynamics of Organic Matter, Nutrients and Algal Pigments in the San Francisco Bay-Delta	Bryan	Downing	bdowning@usgs.gov	Making the Most of Technology: New Tools for Water Quality and Subsidence	TUE	3:55p	308-310

Presentation Title	First	Last	Email	Oral Session	Day	Time	Room
Metapopulation Structure of a Semi-Anadromous Migratory Fish (Sacramento Splittail, <i>Pogonichthys macrolepidotus</i>) Shaped by Climate-Induced Dynamic Habitat Fragmentation	Fred	Feyrer	ffeyrer@usgs.gov	Beyond Delta Smelt: More on Native Fish Ecology	TUE	4:35p	306
North Delta Hydrodynamics from a Fish Perspective	Rachel	Johnson	rrjohnson@usgs.gov	Connecting Models with Behavior	WED	8:20a	314
Using Acoustic Telemetry to Assess the Effect of a Floating Fish Guidance Structure on Entrainment of Juvenile Salmon into Georgiana Slough	Russell W.	Perry	rperry@usgs.gov	Ecohydraulic Applications in Fish and Water Management	WED	8:40a	306
Diel Activity Patterns of Juvenile Late-Fall Chinook Salmon with Implications for Operation of the Delta Cross Channel	John	Plumb	jplumb@usgs.gov	Ecohydraulic Applications in Fish and Water Management	WED	9:00a	306
Continuous Monitoring of Dissolved Oxygen in San Francisco Bay, California: Using High-Frequency Data to Explore Dynamics and Mechanisms	Maureen	Downing-Kunz	mokunz@usgs.gov	Nutrients in the Bay-Delta: Ambient Conditions, Ecosystem Response, and Management Implications	WED	1:35p	307
The Effect, or Lack Thereof, of Sediment Supply and Deposition on Subsequent Fall Turbidity in Suisun Bay	David	Schoellhamer	dschoell@usgs.gov	Trends in Water Quality	WED	11:00a	314
New Insights from Continuous Monitoring of Nutrient Dynamics in the North Delta and Cache Slough Complex	Brian	Pellerin	bpeller@usgs.gov	Nutrients in the Bay-Delta: Ambient Conditions, Ecosystem Response, and Management Implications	WED	11:20a	307

Presentation Title	First	Last	Email	Oral Session	Day	Time	Room
South San Francisco Bay: Status, Trends, and a 21st Century Baseline	Mélanie	Raimonet	melanie.raimonet@univ-brest.fr	Trends in Water Quality	WED	11:40a	314
Tracing Nitrate and Ammonium Dynamics within the San Joaquin-Sacramento River Confluence Region Using Stable Isotopes	Megan	Young	mbyoung@usgs.gov	Water Quality in Space and Time	WED	11:40a	314
Real-Time Water Quality Mapping in the Cache Slough Complex: High Resolution Data across Space and Time	Elizabeth	Stumpner	estumpner@usgs.gov	Water Quality in Space and Time	WED	2:15p	314
Heavy Hitters in the San Francisco Bay Phytoplankton Community - Diatoms, Dinoflagellates, and Cryptophytes	Tara	Schraga	tschraga@usgs.gov	Nutrients in the Bay-Delta: Ambient Conditions, Ecosystem Response, and Management Implications	WED	3:35p	307
What Caused the Diatom Decline in Suisun Bay after 1986?	Lisa	Lucas	llucas@usgs.gov	Nutrients in the Bay-Delta: Ambient Conditions, Ecosystem Response, and Management Implications	WED	4:35p	307
Concentrations and Loads of Current-Use Pesticides Entering the Sacramento/San Joaquin Delta May 2012-April 2013	James	Orlando	jorlando@usgs.gov	Water Quality: When It's Bad	WED	4:35p	314
The Suisun Bay Problem: Food Quality or Food Quantity?	James	Cloern	jecloern@usgs.gov	Nutrients in the Bay-Delta: Ambient Conditions, Ecosystem Response, and Management Implications	WED	4:55p	307
Severe Storms and California's Fragile Delta—Historical Impacts and a New Monitoring Network	Michael	Dettinger	mddettin@usgs.gov	Understanding Effects of Climate Change on the Bay-Delta	THUR	8:20a	308-310

Presentation Title	First	Last	Email	Oral Session	Day	Time	Room
Using Process-Level Science on Peat Formation to Inform Wetland Restoration	Judith	Drexler	jdrexler@usgs.gov	Estuarine Geomorphology I	THUR	8:20a	314
The Next Generation of 21st Century Coastal Flood Maps for San Francisco Bay	Patrick	Barnard	pbarnard@usgs.gov	Understanding Effects of Climate Change on the Bay-Delta	THUR	8:40a	308-310
Too Much or Too Little? Assessing the Impact of Reduced Nutrient Loading from Wastewater Effluent on Foodweb Dynamics in the Delta	Tamara	Kraus	tkraus@usgs.gov	Conundrums in the Delta: Balancing Regulations, Beneficial Uses and Management Objectives	THUR	9:00a	307
Sediment Flux between San Francisco Bay Shallows and Marshes	Jessica	Lacy	jlacy@usgs.gov	Estuarine Geomorphology I	THUR	9:00a	314
Implications of Water Temperatures from Climate Change Projections for Delta Smelt in the Sacramento-San Joaquin Delta, California	Larry	Brown	lrbrown@usgs.gov	Understanding Effects of Climate Change on the Bay-Delta	THUR	9:20a	308-310
Water Temperatures in the North Delta: What Does the Future Hold for Delta Smelt?	Tara	Morgan-King	tamorgan@usgs.gov	Understanding Effects of Climate Change on the Bay-Delta	THUR	9:40a	308-310
Influence of Incomplete Capture on Fish Monitoring and Management: Problems and Solutions	James	Peterson	jt.peterson@oregonstate.edu	Accounting for Gear Limitations in Fish Survey Data to Make Inferences about Population Abundances	THUR	10:20a	308-310
Estuarine Tidal Flat Evolution at Decadal and Seasonal Time Scales	Bruce	Jaffe	bjaffe@usgs.gov	Estuarine Geomorphology II	THUR	10:20a	314
Eliminating Bias in Survival Estimates Due to the Effect of Tag Failure on Right-Skewed Travel Time Distributions: A Bayesian Approach	Adam	Pope	apope@usgs.gov	What's New Using Acoustic Technology to Identify Behavior and Survival of Fishes	THUR	11:00a	306

Presentation Title	First	Last	Email	Oral Session	Day	Time	Room
Optimizing Island Nesting Habitat for Waterbirds Breeding in Wetlands of San Francisco Bay	Alex	Hartman	chartman@usgs.gov	Restoration Lessons Learned II	THUR	11:20a	311-313
Effects of Human Alterations on the Hydrodynamics and Sediment Transport in the Sacramento-San Joaquin Delta, California	Mathieu	Marineau	mmarineau@usgs.gov	Estuarine Geomorphology II	THUR	11:20a	314
Shorebird Response to Varying Salinity and Water Depth in an Experimental Design in Salt Pond Management	Lacy	Smith	lmsmith@usgs.gov	Species and Communities I: The Community Response to Management	THUR	1:00p	306
Projected Impacts of Climate, Urbanization, and Water Management on Waterfowl Habitats and Ecology in California	Elliott	Matchett	ematchett@usgs.gov	Water Policy: Predicting Outcomes	THUR	1:20p	307
Diving Duck Response to Multi-Species Pond Management at Eden Landing Ecological Reserve	Susan E. W.	De La Cruz	sdelacruz@usgs.gov	Species and Communities I: The Community Response to Management	THUR	1:40p	306
Nutrient and Organic Carbon Cycling Processes in Tidal Marshes and Shallow Water Habitats	Brian	Bergamaschi	bbergama@usgs.gov	Exploring Emergent Tidal Marsh Restoration in Suisun and the Delta for Fishes	THUR	3:20p	311-313
Connecting Fish Tissue Selenium Concentrations to Sources and Exposure in a Dynamic Estuary: The Case of Sacramento Splittail	Robin	Stewart	arstewar@usgs.gov	The Contaminant Connection	THUR	3:40p	308-310

POSTERS

Poster Title	First	Last	Email	Poster Theme	Day	Time	Room
Updating the State of Bay-Delta Science to Reflect Findings Learned about the System Since 2008	Darcy	Austin	dgaustin@usgs.gov	Integrative Applied Science	TUE-THUR	5:15p-7:15p	Exhibit Hall B
Mapping Bathymetric Change as Alviso Salt Pond Restoration Projects Progress	Amy	Foxgrover	afoxgrover@usgs.gov	Water and Sediment Quality	TUE-THUR	5:15p-7:15p	Exhibit Hall B
Using Bathymetric Surveys to Estimate Mercury Mobilization from Scour within Alviso Slough	Theresa	Fregoso	tfregoso@usgs.gov	Water and Sediment Quality	TUE-THUR	5:15p-7:15p	Exhibit Hall B
Effect of Flow and Water Year (WY) Type on Nutrient and Organic Matter Sources and Biogeochemical Processes in the San Francisco Estuary: Use of a Multi-Isotope Fingerprinting Approach for Habitat Characterization during the Fall and Spring 2006-2014	Carol	Kendall	ckendall@usgs.gov	Sustainable Habitats and Ecosystems	TUE-THUR	5:15p-7:15p	Exhibit Hall B
Effect of Drought Conditions on the Distribution and Bioaccumulation of Selenium in Two Invasive Clam Species in North San Francisco Bay	Amy	Kleckner	kleckner@usgs.gov	Species and Communities	TUE-THUR	5:15p-7:15p	Exhibit Hall B
Projecting Boundary Conditions for a Hydrodynamic Model of the Bay-Delta under Scenarios of Climate Change	Noah	Knowles	nknowles@usgs.gov	Modeling	TUE-THUR	5:15p-7:15p	Exhibit Hall B

Poster Title	First	Last	Email	Poster Theme	Day	Time	Room
Potential for In Situ Coagulation in Conjunction with Constructed Wetlands to Reduce Total and Methyl Mercury Concentrations, Loads and Bioavailability	Tamara	Kraus	tkraus@usgs.gov	Water and Sediment Quality	TUE-THUR	5:15p-7:15p	Exhibit Hall B
Influence of Wind, Wind Waves, and Tidal Forcing on Sediment Resuspension, Liberty Island, CA	Tara	Morgan-King	tamorgan@usgs.gov	Physical Processes	TUE-THUR	5:15p-7:15p	Exhibit Hall B
Sacramento-San Joaquin Delta Improved Continuous Monitoring Network for Water and Habitat Quality	Scott	Nagel	stnagel@usgs.gov	Water and Sediment Quality	TUE-THUR	5:15p-7:15p	Exhibit Hall B
In Stream Nitrate Dynamics in the Presence and Absence of Effluent in the Sacramento River, CA	Katy	O'Donnell	kodonnell@usgs.gov	Water and Sediment Quality	TUE-THUR	5:15p-7:15p	Exhibit Hall B
Biomass Distribution of Potamocorbula amurensis and Corbicula fluminea in the San Francisco Bay and Delta during Several Dry and One Wet Year	Francis	Parchaso	parchaso@usgs.gov	Species and Communities	TUE-THUR	5:15p-7:15p	Exhibit Hall B
Management Implications of the Diet of Barn Owls Foraging in San Pablo Bay Wetlands	Katherine	Powelson	kpowelson@usgs.gov	Species and Communities	TUE-THUR	5:15p-7:15p	Exhibit Hall B
Identifying When Tagged Fishes Have Been Consumed By Piscivorous Predators: Application of Multivariate Mixture Models to Movement Parameters of Telemetered Fishes	Jason	Romine	jromine@usgs.gov	Fish Biology, Ecology and Protection	TUE-THUR	5:15p-7:15p	Exhibit Hall B

Poster Title	First	Last	Email	Poster Theme	Day	Time	Room
Potential Benefits of C-N-S Isotopes of Dissolved Organic Matter (DOM) for Pelagic Organism Decline (POD) and Habitat Studies in the San Francisco Estuary (SFE)	Steve	Silva	srsilva@usgs.gov	Water and Sediment Quality	TUE-THUR	5:15p-7:15p	Exhibit Hall B
Assessing Habitat Quality using New Optical Methods Developed for In-Situ, Real-Time Detection of Habitat Quality Indicators	Amy	Story	astory@usgs.gov	Water and Sediment Quality	TUE-THUR	5:15p-7:15p	Exhibit Hall B
Evaluation of Junction Hydrodynamics in the Sacramento-San Joaquin Delta	Paul	Stumpner	pstump@usgs.gov	Physical Processes	TUE-THUR	5:15p-7:15p	Exhibit Hall B
Method for Continuous In-situ Measurement of Phytoplankton Settling Rates Using Existing Flow-Through Fluorometers	Alexander	Tsompanas	atsompanas@usgs.gov	Sampling Methods and Design	TUE-THUR	5:15p-7:15p	Exhibit Hall B
Communicating Science: The South Bay Salt Pond Restoration Project	Laura	Valoppi	Laura_Valoppi@usgs.gov	Integrative Applied Science	TUE-THUR	5:15p-7:15p	Exhibit Hall B
Adaptive Management in Action: The South Bay Salt Pond Restoration Project	Laura	Valoppi	Laura_Valoppi@usgs.gov	Sustainable Habitats and Ecosystems	TUE-THUR	5:15p-7:15p	Exhibit Hall B
The Tail of Two Marshes: A Case Study Comparing a “Designer” and “Self-Design” Marsh	Isa	Woo	iwoo@usgs.gov	Sampling Methods and Design	TUE-THUR	5:15p-7:15p	Exhibit Hall B
Recent Progress of the Sacramento-San Joaquin Delta and Suisun Bay Ecopath Model	Marissa	Wulff	mwulff@usgs.gov	Food Webs	TUE-THUR	5:15p-7:15p	Exhibit Hall B